

# Government of Madras.

EDUCATIONAL DEPARTMENT.

*Recd.*

*Regd.*

} 1912.

*Enclosures*

*Spare copies*

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G.O. No. 310, 11th April 1912.

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DESPATCHED

Presidency College.

Sanctioning the proposals of the Director of Public Instruction to strengthen the staff of the — by the appointment of two assistants and two demonstrators.



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Presidency College.

Sanctioning the proposals of the Director of Public Instruction to strengthen the staff of the — by the appointment of two assistants and two demonstrators.



## GOVERNMENT OF MADRAS.

## EDUCATIONAL DEPARTMENT.

READ—the following paper :—

Letter—from the Hon'ble Mr. A. G. BOURNE, D.Sc., F.R.S., C.I.E., Director of Public Instruction, Madras.

To—the Secretary to Government, Educational Department (through the Accountant-General, Madras).

Dated—the 13th December 1911.

No.—Ref. on Cur. 6452.

I have the honour to request that you will be so good as to obtain the sanction of Government for the employment of an assistant professor in Physics and two temporary demonstrators on Rs. 50 *per mensem* each for the Physics department and of an assistant professor of Sanskrit in the Presidency College, both the assistant professorships being included in the cadre of the subordinate educational service, collegiate branch.

2. The present scale of staff in the Physics department consists of a professor and two assistants, and it is stated that the number of students who have to go through a course of practical work in physics exclusive of the few preparing for the M.A. degree examination and taking the honours courses is 168 as shown in the

|                           |    |     |    |                                                                               |
|---------------------------|----|-----|----|-------------------------------------------------------------------------------|
| Junior intermediate       | .. | ..  | 58 | margin, that every student in each of                                         |
| Senior                    | "  | ..  | 67 | these classes has to work for a period of                                     |
| Mathematics (junior B.A.) | .. | ..  | 12 | two consecutive hours a week except the                                       |
| Physics ( " )             | .. | ..  | 20 | physics students who have to attend for                                       |
| Chemistry ( " )           | .. | ..  | 11 | two such periods or four hours a week,                                        |
|                           |    |     |    | and that provision has to be made for                                         |
| Total                     | .. | 168 |    | practical instruction for what is equivalent to 188 students each working for |

two hours every week. Next year the number will, it is estimated, be 220 as the senior classes also have to be provided for. Regarding the work of each student in the laboratory the Professor of Physics says that his work, the observations he takes, the calculations made and the results obtained have all to be examined by the member of the staff in charge of the class and that this is a most important part of the work requiring the greatest care if students are to derive real benefit from the course. In addition to this there is the ordinary class work involving lectures, demonstrations, exercises and occasional test papers.

The professor further observes that the two assistants are not available for this work as they have practical classes of their own at the time, and that though the Professor of Mathematical Physics has relieved him of some of his excessive lecture

work referred to in the University Commission's report on the inspection of the college he cannot give the assistance so urgently required in the laboratory work as he himself has had no laboratory experience and training. Of the two assistants, one has charge of the Senior Intermediate and the B.A. Chemistry classes in the Physics portion they have to do and the other has charge of the Junior Intermediate class. Mr. Jones therefore proposes the following minimum additional staff to cope efficiently with the work :—

One assistant professor in the Provincial Educational Service, who has a good laboratory training and experience with practical classes, and two temporary demonstrators each on Rs. 50 *per mensem*.

It is proposed to recruit the latter from men who have passed the B.A. or the L.T. degree examination and who are anxious to gain more experience of laboratory work before taking up appointments in schools and colleges, and it is expected that they will ordinarily stay on for about twelve months.

In this connection Mr. Jones draws a few comparisons between the strength of the teaching staff in the Physics department and that in one or two other departments of the college. He says that while the Physics staff consists of a professor and two assistants, the Mathematics staff consists of a professor and three assistants exclusive of the Professor of Mathematical Physics who is common to both the departments, and that in Chemistry there are two professors and two assistants, while the members who work in the Chemical laboratory are less than those in the Physical laboratory. He adds that three years ago the number of students who worked in the Physical laboratory was about 60, while at present it is almost three times that number and the only increase in the staff that has been made to cope with the laboratory work is the addition of one assistant.

The Principal in strongly supporting the above proposals states that a very large amount has been spent in providing the department with suitable buildings and equipping it with apparatus and instruments, but that full advantage cannot be taken of the expenditure unless the teaching staff is increased in the manner proposed by Mr. Jones. He says that the comparison Mr. Jones makes as to the scale of staff in the other departments is a perfectly fair one, but he does not think that the Mathematical department is at all overstaffed.

3. As regards the necessity for the additions proposed for the Sanskrit department, the Professor of Sanskrit reports that five students have joined the Sanskrit Honours B.A. class this year and that proper provision will have to be made for the work of that class. As regards the number of hours to be devoted to this branch he says that on the whole provision will have to be made for 59 hours of work as shown below :—

| B.A. Honours.                                                                        |    |    |    |    |                 |
|--------------------------------------------------------------------------------------|----|----|----|----|-----------------|
| English                                                                              | .. | .. | .. | .. | 2 hours a week. |
| Class, Sanskrit                                                                      | .. | .. | .. | .. | 15 "            |
| Library                                                                              | .. | .. | .. | .. | 8 "             |
| B.A. (Senior class)                                                                  | .. | .. | .. | .. | 4 "             |
| Intermediate, Senior                                                                 | .. | .. | .. | .. | 6 "             |
| Do. Junior                                                                           | .. | .. | .. | .. | 6 "             |
| Tuition and guidance to two M.A. students                                            | .. | .. | .. | .. | 8 "             |
| Work in the Oriental Manuscripts Library which forms part of the professor's duties. | .. | .. | .. | .. | 10 "            |
| Total                                                                                |    |    |    |    | 59              |

Of these the professor says that he is personally doing 14 hours of college work and that this together with the 10 hours work he is doing in the Oriental Manuscripts Library and the time required for the preparation of lectures may seem to be more than adequate. The Sanskrit Pandit may be expected to do 15 hours' lecturing work and 5 hours' supervision during library work. Thus 15 hours' work



still remains to be provided for immediately and it is stated that for this work one more assistant is required at once who should be a capable English-knowing Sanskritist in full sympathy with western methods of study and research and well acquainted with oriental learning.

Rao Bahadur Rangachariar mentions in this connection that two years hence when all the three honours classes in Sanskrit might be expected to be in working, the professor and the assistants will have to be responsible for 83 hours of lecturing and supervision work in the week and that it will be necessary to have at least four assistants. He adds that the Hon'ble Mr. Sivaswami Aiyar has in his report to the Syndicate regarding the affiliation of the college for the B.A. honours in Sanskrit stated that five persons are required to do the work in the honours class and that of the four assistants one should be a junior professor belonging to the cadre of the provincial educational service and the rest may belong to the class of pandits. The Professor of Sanskrit, however, thinks that it will be sufficient to have two English-knowing Sanskritists and two pandits as assistants to the Professor of Sanskrit, as in the honours course more work has to be done along western lines than along the Indian pandit lines. He therefore proposes that one of the two English knowing Sanskritists may be appointed as senior assistant professor and be a member of the Provincial Educational Service—that the other be given a place in the subordinate educational service (collegiate branch) and that the pay of the two pandits be fixed at Rs. 80—100 and Rs. 60—80, it being considered not possible to command the services of the sort of men that are needed for doing the high class work of the B.A. honours course with pay and prospects less attractive than as indicated above.

The Principal thinks that if Sanskrit is to continue to be taught in the college as an independent subject leading to an honours course, the present staff consisting of a professor and a pandit should be augmented but that he does not agree with the Professor of Sanskrit that a professor and two assistants and two pandits will be required. He says that it is not necessary that honours students should be under the supervision of a member of the staff for practically the total number of working hours each day, that each class should be under *separate* supervision, and that even assuming that a class cannot be trusted to work by itself without supervision, which is not always necessary, the time-table can probably be so arranged that two or even three classes may be under the supervision of a single member of the staff during some of the hours of the week.

4. The Hon'ble Mr. Stone, after a personal discussion of the proposal with Mr. Middlemast, supports Mr. Jones' request for an additional assistant and two temporary demonstrators; but in view of the fact that additions are not made to the cadre of the provincial educational service pending the re-organization of that service he considers that it would be enough if the additional assistant is appointed to the first grade of the subordinate educational service, collegiate branch. In this view I quite concur.

As regards the requirements of the Professor of Sanskrit, Mr. Stone thinks, and rightly too, that it cannot be necessary to keep "honours" candidates actually under instruction for many hours a week, that the work with them must necessarily be of the nature of directing their reading and that the appointment of an additional assistant should suffice for the present. I beg accordingly to recommend the creation of a post in the second grade of the subordinate collegiate service. This would give three men for Sanskrit as compared with five for English.

5. The additional staff proposed for the Physics department, viz., one assistant and two demonstrators, will be required from the 1st January 1912 and that for Sanskrit from 1st July 1912 when the college reopens after the summer vacation.

6. I beg to submit the usual proposition statement and a reappropriation statement pointing out how the extra charge proposed for the Physics department can be met during the current year, and to state that another statement showing how the charge on account of the above proposals can be met during 1912-1913 will be submitted on receipt of the civil budget estimates of that year.

## ENCLOSURES.

(1)

## STATEMENT OF PROPOSITION FOR REVISION OF ESTABLISHMENT.

| Order sanctioning present establishment. Government of Madras, Educational Department. |                      | Office to which the proposition refers. |                                                                               |                                     | Nature of charge.    |                                     |                                     |                   |                                                                                |                                         |                      |                                         |                                         |                               | Proposition.         |                       |                         |                     |                     |       |       |    |          |       |       |       |     |    |
|----------------------------------------------------------------------------------------|----------------------|-----------------------------------------|-------------------------------------------------------------------------------|-------------------------------------|----------------------|-------------------------------------|-------------------------------------|-------------------|--------------------------------------------------------------------------------|-----------------------------------------|----------------------|-----------------------------------------|-----------------------------------------|-------------------------------|----------------------|-----------------------|-------------------------|---------------------|---------------------|-------|-------|----|----------|-------|-------|-------|-----|----|
| Number.                                                                                |                      | Date.                                   |                                                                               | 3                                   | Present scale.       |                                     |                                     |                   |                                                                                | Proposed scale.                         |                      |                                         |                                         |                               | Permanent.           |                       | Grounds of proposition. |                     |                     |       |       |    |          |       |       |       |     |    |
|                                                                                        |                      |                                         |                                                                               |                                     | Designation.         |                                     | Pay.                                |                   |                                                                                | Average post.                           |                      | Number.                                 | Designation.                            | Pay.                          |                      | Average cost.         |                         | Increase per month. | Decrease per month. |       |       |    |          |       |       |       |     |    |
| 1                                                                                      | 2                    | 4                                       | 5                                                                             | 6                                   | 7                    | 8                                   | 9                                   | 10                | 11                                                                             | 12                                      | 13                   |                                         |                                         | 14                            | 15                   | 16                    | 17                      |                     |                     | 18    |       |    |          |       |       |       |     |    |
|                                                                                        |                      |                                         |                                                                               |                                     |                      |                                     |                                     |                   |                                                                                |                                         |                      |                                         |                                         |                               |                      |                       |                         |                     |                     |       |       |    |          |       |       |       |     |    |
| G.O. No. 668.                                                                          | 18th September 1911. | 5                                       | Officers at Rs 175 each<br>Do. at " 150 "<br>Do. at " 125 "<br>Do. at " 100 " | RS.<br>875<br>900<br>1,000<br>1,300 | ..<br>..<br>..<br>.. | RS.<br>875<br>900<br>1,000<br>1,300 | RS.<br>875<br>900<br>1,000<br>1,300 | 6<br>7<br>8<br>13 | Officers at Rs. 175 each<br>Do. at " 150 "<br>Do. at " 125 "<br>Do. at " 100 " | RS.<br>1,050<br>1,050<br>1,000<br>1,300 | ..<br>..<br>..<br>.. | RS.<br>1,050<br>1,050<br>1,000<br>1,300 | RS.<br>1,050<br>1,050<br>1,000<br>1,300 | RS.<br>175<br>150<br>..<br>.. | ..<br>..<br>..<br>.. | Vide covering letter. |                         |                     |                     |       |       |    |          |       |       |       |     |    |
|                                                                                        |                      |                                         |                                                                               |                                     |                      |                                     |                                     |                   |                                                                                |                                         |                      |                                         |                                         |                               |                      |                       | 32                      | Total ..            | 4,075               | 4,075 | 4,075 | 34 | Total .. | 4,400 | 4,400 | 4,400 | 325 | .. |
|                                                                                        |                      |                                         |                                                                               |                                     |                      |                                     |                                     |                   |                                                                                |                                         |                      |                                         |                                         |                               |                      |                       |                         |                     |                     |       |       |    |          |       |       |       |     |    |
|                                                                                        |                      |                                         |                                                                               |                                     |                      |                                     |                                     |                   |                                                                                |                                         |                      |                                         |                                         |                               |                      |                       |                         |                     |                     |       |       |    |          |       |       |       |     |    |
|                                                                                        |                      |                                         |                                                                               |                                     |                      |                                     |                                     |                   |                                                                                |                                         |                      |                                         |                                         |                               |                      |                       |                         |                     |                     |       |       |    |          |       |       |       |     |    |
|                                                                                        |                      | 1                                       | Extra assistant (fourth grade).                                               | 100                                 | ..                   | 100                                 | 100                                 | 1                 | Extra assistant (fourth grade).                                                | 100                                     | ..                   | 100                                     | 100                                     | ..                            | ..                   | ..                    |                         |                     |                     |       |       |    |          |       |       |       |     |    |
|                                                                                        |                      |                                         | Temporary Establishment.                                                      |                                     |                      |                                     |                                     |                   | Temporary Establishment.                                                       |                                         |                      |                                         |                                         |                               |                      |                       |                         |                     |                     |       |       |    |          |       |       |       |     |    |



## Statement of proposition for revision of establishment—cont.

| Order sanctioning present establishment. Government of Madras, Educational department. |   |                                         | Nature of charge. |                                                      | Present scale. |            |          |           | Proposed scale. |                                                      |            |          | Proposition.  |            |            |    | Grounds of proposition. |    |    |    |
|----------------------------------------------------------------------------------------|---|-----------------------------------------|-------------------|------------------------------------------------------|----------------|------------|----------|-----------|-----------------|------------------------------------------------------|------------|----------|---------------|------------|------------|----|-------------------------|----|----|----|
| 1                                                                                      | 2 | Office to which the proposition refers. | Number.           | Designation.                                         | Pay.           |            |          | Number.   | Designation.    | Pay.                                                 |            |          | Proposition.  |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      | Minimum.       | Increment. | Maximum. |           |                 | Minimum.                                             | Increment. | Maximum. | Average cost. | Permanent. | Temporary. |    |                         |    |    |    |
|                                                                                        |   |                                         | 4                 | 5                                                    |                | 6          | 7        | 8         | 9               | 10                                                   | 11         | 12       | 13            | 14         | 15         | 16 | 17                      | 18 | 19 | 20 |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         | 1                 | Principal, Indian Educational service.               | 240            | ..         | 320      | 290 0     | 1               | Principal, Indian Educational service.               | ..         | 240      | ..            | 320        | 290 0      | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 9                 | Professors, Indian Educational service.              | 200            | ..         | 300      | 263 3/4   | 9               | Professors, Indian Educational service.              | ..         | 200      | ..            | 300        | 263 3/4    | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 6                 | Professors, Provincial Educational service.          | 20             | 2          | 30       | 27 8      | 6               | Professors, Provincial Educational service.          | ..         | 20       | 2             | 30         | 27 8       | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 16                | Assistant lecturers, Subordinate Collegiate service. | 50             | 5          | 75       | 66 10 3/4 | 18              | Assistant lecturers, Subordinate Collegiate service. | ..         | 50       | 5             | 75         | 66 10 3/4  | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 6                 | Pandits                                              | 60             | ..         | 60       | 60 0      | 6               | Pandits                                              | ..         | 60       | ..            | 60         | 60 0       | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 1                 | Librarian                                            | 15             | ..         | 15       | 15 0      | 1               | Librarian                                            | ..         | 15       | ..            | 15         | 15 0       | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 1                 | Clerk                                                | 134            | ..         | 124      | 124 0     | 1               | Clerk                                                | ..         | 124      | ..            | 124        | 124 0      | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 1                 | Gymnastic                                            | 709            | ..         | 924      | 845 6 3/4 | 1               | Gymnastic                                            | ..         | 709      | ..            | 924        | 845 6 3/4  | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 1                 | Instructor                                           | ..             | ..         | ..       | ..        | 1               | Instructor                                           | ..         | ..       | ..            | ..         | ..         | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 3                 | Mechanic                                             | ..             | ..         | ..       | ..        | 3               | Mechanic                                             | ..         | ..       | ..            | ..         | ..         | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 1                 | Attenders at Rs. 20                                  | ..             | ..         | ..       | ..        | 1               | Attenders at Rs. 20                                  | ..         | ..       | ..            | ..         | ..         | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         | 15                | Peons 4 (9), 11 (8)                                  | ..             | ..         | ..       | ..        | 15              | Peons 4 (9), 11 (8)                                  | ..         | ..       | ..            | ..         | ..         | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         |                   | Total                                                | 709            | ..         | 924      | 845 6 3/4 | 2               | Total                                                | ..         | 709      | ..            | 924        | 845 6 3/4  | .. | ..                      | .. | .. | .. |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
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|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |
|                                                                                        |   |                                         |                   |                                                      |                |            |          |           |                 |                                                      |            |          |               |            |            |    |                         |    |    |    |



EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O. No. 310, EDUCATIONAL,  
DATED 11TH APRIL 1912.

[SUBJECT.—*Additional staff for the Presidency College.*]

*Previous papers :*

G.O. No. 31, Educational, dated 16th January 1909.  
" " 590 " " 30th October "  
Letter " 148 " " 13th March "

*From the Director of Public Instruction, dated 13th December 1911,  
No. 6452.*

The Director of Public Instruction requests sanction for the appointment of two assistant professors and two temporary demonstrators in the Presidency College. The assistant professorships are to be included in the cadre of the Subordinate Educational Service, Collegiate Branch, one in the first grade—pay Rs. 175 and the other in the second grade—pay Rs. 150. The demonstrators are to be paid Rs. 50 each. The total cost of the proposal is thus Rs. 425 per mensem or Rs. 5,100 per annum.

2. One of the assistant professors and the two temporary demonstrators are required for the Physics department and the other assistant professor for the Sanskrit

department. The appointments of demonstrators are not really temporary. Their services are not required for a limited time but indefinitely, but as it is expected that the incumbents of the posts will not ordinarily stay on for more than twelve months, it is proposed to class the appointments as temporary.

L. DAVIDSON—21-1-12.

3. The Director of Public Instruction states that the present staff of the Physics department consists of a professor and two assistants. This statement, it is submitted, is not accurate. Before the staff of the Presidency College was re-organized in 1909 the staff of the Physics department consisted of one professor and one assistant—*vide* the portion relating to "*Branch II Mathematics, Physics and Chemistry*" in the Director of Public Instruction's letter, dated 12th June 1908, on page 6 of G.O. No. 31, Educational, dated 16th January 1909. In this Government order the Director's proposal to add one professor and two assistants to the Physics department was approved and it was finally sanctioned in G.O. No. 590, Educational, dated 30th October 1909. Accordingly the staff of the Physics department should now consist of two professors and three assistants. A professor of Mathematical Physics appears to have already been appointed but in the present communication he has not been treated as belonging to the staff of the Physics department. In the



University Commission's report, paragraphs 4 and 5, the appointment of professor of Mathematical Physics is shown under the head "Physics" and even there the number of assistants is given as two and not three. Before the re-organization of the staff of the Presidency College above referred to, the staff of the Mathematical department consisted of one professor and two assistants and in G.O. No. 31, Educational, dated 16th January 1909, no additional staff was sanctioned for Mathematics. But according to the University Commission report the Mathematical staff of the Presidency College now consists of one professor and three assistants and apparently

Director of Public Instruction u.o.

L. DAVIDSON.

one of the assistants sanctioned for Physics has been appropriated for Mathematics. The Director of Public Instruction may be asked u.o. to state whether this presumption is correct and if so, whether he considers that three assistants are now required for the Mathematical department.

They represent the combined opinion of Messrs. Jones, Middlemast, Stone and Bourne as to Physics and of the three latter as to Sanskrit. Educational may accept it.

L. DAVIDSON—21-1-12.

of strengthening the staff for classical and

Page 7 of G.O. No. 31, Educational, dated 16th January 1909.

T.K.—18-1-12.

Mr. Stone's proposals included an assistant to the Professor of Mathematical Physics and this was one of the two assistant Professors sanctioned for Physics in G.O. No. 31, Educational, dated 16th January 1909. This assistant seems now to have been utilized for

Apparently this is the case.

L. DAVIDSON.

R. SUNDARAM AIYAR—18-1-12.

There is one other point not touched on in the office-note which I should like elucidated. This relates to the number of intermediate students in Physics. This is now 125 or more than double the number which according to the inspection report "the College intends to take." In October 1910 when that report was written the accommodation was easily sufficient for 60 but the apparatus required additions in order to enable 60 students to work at one time. It is not clear that by 60 intermediate students the writers of the report meant 60 in each of the two intermediate classes or 120 in all.

2. The case for additional demonstrators (and also for the extra Sanskrit lecturer) would be more convincing if backed up by a statement not necessarily in great detail of the arrangements existing and proposed for the distribution of lecturing and supervision of practical work. I mean in the form of time-table.

L. DAVIDSON—21-1-12.

To the Director of Public Instruction.

# OFFICE OF THE DIRECTOR OF PUBLIC INSTRUCTION.

With reference to the note at A above the matter is largely one of nomenclature. Mathematical Physics links Mathematics with Physics. For the group there are at present three Professors and five assistants. The pressure will come permanently in July with the second batch of Honours Students and to a greater extent in the following July with the third batch.

The pressure at present is due to the fact that the Professor of Mathematics is also Principal and has had to take an extra assistant for Mathematical work. As they have managed without another assistant so long the new appointment may take effect only from 1st July, i.e., after the vacation. Then there can I think be no doubt as to his being needed.

2. It is quite certain that the Inspection Commission knew that 60 students were expected in the Physics class in each of the two years. Mr. Littlehailes who wrote the report may not have expressed himself clearly but he was of course fully cognizant of the arrangements.

3. I am adding to the file time-tables as suggested, these would however be of little use were they not in detail.

It is quite clear that the new regulations entail appalling complications in the time-tables there may be and will be in many subjects as many as 7 different classes taking one subject (2 Intermediate, 2 Degree pass and 3 Degree honours). No one can with rare exceptions take two classes at the same time and the question of the amount of work turned out by any individual has to be entirely subordinated to the provision of a sufficient number of teachers for the several classes which have to meet in the course of a day.

A. G. BOURNE—4-3-12.

## Distribution of work 1911-12.

### Department of Mathematics.

#### Professor of Mathematics—

|                                                 |       |                                  |
|-------------------------------------------------|-------|----------------------------------|
| First term                                      | .. .. | B.A. Pass (second year) 5 hours. |
| Second term                                     | .. .. | Do. do. 5 hours.                 |
| Also tutorial work with M.A. students 2½ hours. |       |                                  |

#### \* Professor of Mathematical Physics—

|             |       |                                    |
|-------------|-------|------------------------------------|
| First term  | .. .. | B.A. Pass (first year) 3 hours.    |
|             |       | B.A. Honours (first year) 2 hours. |
| Second term | .. .. | B.A. Honours (first year) 4 hours. |

#### First Assistant—

|             |       |                                    |
|-------------|-------|------------------------------------|
| First term  | .. .. | B.A. Pass (first year) 3 hours.    |
|             |       | Do. (second year) 4 hours.         |
|             |       | B.A. Honours (first year) 5 hours. |
| Second term | .. .. | B.A. Pass (first year) 3 hours.    |
|             |       | Do. (second year) 4 hours.         |
|             |       | B.A. Honours (first year) 3 hours. |

#### Second Assistant—

|             |       |                                     |
|-------------|-------|-------------------------------------|
| First term  | .. .. | Intermediate (second year) 3 hours. |
|             |       | B.A. Pass (second year) 4 hours.    |
|             |       | B.A. Honours (first year) 4 hours.  |
| Second term | .. .. | Intermediate (second year) 3 hours. |
|             |       | B.A. Pass (second year) 4 hours.    |
|             |       | B.A. Honours (first year) 4 hours.  |

#### Third Assistant—

|             |       |                                    |
|-------------|-------|------------------------------------|
| First term  | .. .. | Intermediate (first year) 4 hours. |
|             |       | Do. (second year) 1 hour.          |
|             |       | B.A. Pass (first year) 3 hours.    |
| Second term | .. .. | Intermediate (first year) 4 hours. |
|             |       | Do. (second year) 1 hour.          |
|             |       | B.A. Pass (first year) 3 hours.    |

\* Has in addition 3 hours' work in the Physics Department (viz., Higher Mathematics to the B.A. Honours-first year).



## DEPARTMENT of Mathematics, 1911-12.

| Hours. | Monday.                                                                                                  | Tuesday.                                                                                              | Wednesday.                                                                                                            | Thursday.                                                                                                               | Friday.                                                                                               |
|--------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 10-11  | ..                                                                                                       | ..                                                                                                    | ..                                                                                                                    | ..                                                                                                                      | ..                                                                                                    |
|        |                                                                                                          | II. Algebra and Geometry.<br>IV. Astronomy.                                                           | A <sub>3</sub> III Algebra ..<br>A <sub>2</sub>                                                                       | A <sub>1</sub> IV. Astronomy. A <sub>2</sub>                                                                            | I Geometry. A <sub>3</sub><br>III Physics. P <sub>1</sub>                                             |
| 11-12  | I Practical Mathematics.<br>III Physics.<br>H <sub>1</sub> Algebra and Elementary Differential Calculus. | A <sub>3</sub> H <sub>1</sub> Geometry. A <sub>2</sub><br>P <sub>1</sub> IV. Optics and Hydrostatics. | A <sub>3</sub> I. Algebra and Trigonometry.<br>A <sub>2</sub> III. Physics.<br>H <sub>1</sub> Algebra. A <sub>1</sub> | A <sub>3</sub> H <sub>1</sub> Geometry. A <sub>2</sub><br>P <sub>1</sub> IV. Optics and Hydrostatics.<br>A <sub>1</sub> | III Practical Physics. P <sub>1</sub><br>H <sub>1</sub> Algebra and Elementary Differential Calculus. |
| 12-1   | I Practical Mathematics.<br>III Algebra, etc.                                                            | A <sub>3</sub> IV. Differential Calculus.<br>A <sub>1</sub>                                           | P H <sub>1</sub> Elementary Mechanics.<br>IV Astronomy. A <sub>2</sub>                                                | P <sub>1</sub> II Trigonometry. A <sub>2</sub><br>IV Differential Calculus. P                                           | II Practical Physics. P <sub>1</sub><br>H <sub>1</sub> Elementary Mechanics.                          |
| 2-3    | H <sub>1</sub> Geometry. A <sub>2</sub><br>IV Mechanics. P                                               | III Geometry. A <sub>3</sub><br>H <sub>1</sub> Trigonometry and Co-ordinate Geometry. A <sub>1</sub>  | II Practical Mathematics. A <sub>2</sub><br>IV Mechanics. P                                                           | III. Co-ordinate Geometry. A <sub>3</sub><br>H <sub>1</sub> Trigonometry and Co-ordinate Geometry. A <sub>1</sub>       | H <sub>1</sub> Practical Mathematics. A <sub>2</sub><br>IV. Mechanics. P                              |
| 3-4    | IV Spherical Trigonometry and Astronomy.                                                                 | A <sub>2</sub> III Co-ordinate Geometry.                                                              | A <sub>3</sub> II Practical Mathematics.<br>IV Problems. A <sub>1</sub>                                               | A <sub>2</sub> III. Practical Mathematics. A <sub>1</sub>                                                               | IV. Optics and Hydrostatics. A <sub>1</sub>                                                           |

I=Junior Intermediate.  
II=Senior Intermediate.  
III=Junior B.A. Pass.  
H1=First year Class B.A. (Honours).  
IV=Senior B.A. (Old Regulations).

P=Professor of Mathematics.  
P<sub>1</sub>=Professor of Mathematical Physics.  
A<sub>1</sub>=First Assistant Professor.  
A<sub>2</sub>=Second Assistant Professor.  
A<sub>3</sub>=Third Assistant Professor.

## DISTRIBUTION OF WORK, 1912-13.

## Department of Mathematics.

## Professor of Mathematics—

First term .. .. B.A. Pass (second year), 1 hour.  
.. .. B.A. Honours (second year), 6 hours.  
Second term .. .. B.A. Pass (second year), 1 hour.  
.. .. B.A. Honours (first year), 1 hour.  
Do. (second year), 8 hours.

## \* Professor of Mathematical Physics—

First term .. .. † B.A. Pass (first year), 3 hours.  
.. .. B.A. Honours (first year), 4 hours.  
Do. (second year), 2 hours.  
Second term .. .. B.A. Honours (first year), 4 hours.  
Do. (second year), 3 hours.

## First Assistant—

First term .. .. B.A. Pass (first year), 3 hours.  
Do. (second year), 2 hours.  
B.A. Honours (first year), 3 hours.  
Do. (second year), 6 hours.  
Second term .. .. B.A. Pass (first year), 3 hours.  
Do. (second year), 2 hours.  
B.A. Honours (first year), 3 hours.  
Do. (second year), 3 hours.

\* Has in addition five hours' work in the Physics department—Higher Mathematics to the B.A. Honours (first year) and Spherical Harmonics to B.A. Honours (second year).

† This course is also attended by the B.A. (II-A.) Pass students.

## Second Assistant—

First term .. .. Intermediate (first year), 1 hour.  
Do. (second year), 1 hour.  
B.A. Pass (second year), 5 hours.  
B.A. Honours (first year), 5 hours.  
Do. (second year), 4 hours.

Second term .. .. Intermediate (first year), 1 hour.  
Do. (second year), 1 hour.  
B.A. Pass (second year), 4 hours.  
B.A. Honours (first year), 6 hours.  
Do. (second year), 4 hours.

## Third Assistant—

First term .. .. Intermediate (first year), 3 hours.  
Do. (second year), 3 hours.  
B.A. Pass (first year), 4 hours.  
Do. (second year), 2 hours.  
B.A. Honours (first year), 2 hours.

Second term .. .. Intermediate (first year), 3 hours.  
Do. (second year), 3 hours.  
B.A. Pass (first year), 4 hours.  
Do. (second year), 3 hours.

## DEPARTMENT of Mathematics, 1912-13.

| Hours. | Monday.                                                                                                                                                                              | Tuesday.                                                                                                                         | Wednesday.                                                                                                                                                                        | Thursday.                                                                                                                                | Friday.                                                                                                            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 10-11  | H <sub>1</sub> Trigonometry (first term).<br>H <sub>2</sub> Solid Geometry (first term).                                                                                             | A <sub>3</sub> II. Geometry. A <sub>2</sub><br>A <sub>1</sub> IV. and H <sub>2</sub> Astronomy.                                  | A <sub>3</sub> III Algebra. A <sub>2</sub><br>H <sub>2</sub> Trigonometry (first term).                                                                                           | A <sub>1</sub> IV and H <sub>2</sub> Astronomy. A <sub>3</sub>                                                                           | I Geometry. A <sub>3</sub><br>III Mechanics. P <sub>1</sub><br>H <sub>2</sub> Co-ordinate Geometry. A <sub>1</sub> |
| 11-12  | I Algebra. A <sub>3</sub><br>III Mechanics. P <sub>1</sub><br>H <sub>2</sub> Algebra. A <sub>2</sub><br>A <sub>1</sub>                                                               | IV. Algebra. A <sub>1</sub><br>H <sub>2</sub> Statics. P <sub>1</sub>                                                            | I Trigonometry. A <sub>2</sub><br>III Mechanics. P <sub>1</sub><br>H <sub>1</sub> Co-ordinate Geometry.                                                                           | IV. Geometry. A <sub>2</sub><br>H <sub>2</sub> Geometry. P <sub>1</sub><br>H <sub>2</sub> Hydrostatics. A <sub>3</sub><br>P <sub>1</sub> | H <sub>1</sub> Algebra. A <sub>2</sub><br>H <sub>2</sub> Statics. P <sub>1</sub>                                   |
| 12-1   | I Practical Mathematics. A <sub>3</sub><br>H <sub>1</sub> Geometry. A <sub>2</sub><br>H <sub>2</sub> Differential Equations (second term). P                                         | III. Geometry. A <sub>3</sub><br>H <sub>1</sub> Kinematics second term. P<br>H <sub>2</sub> Algebra. A <sub>1</sub>              | III. Geometry. A <sub>2</sub><br>H <sub>1</sub> Geometry. A <sub>3</sub><br>IV. Co-ordinate Geometry. P                                                                           | II. Algebra. A <sub>3</sub><br>H <sub>2</sub> Calculus. P                                                                                | H <sub>1</sub> Practical Mathematics. A <sub>2</sub><br>H <sub>2</sub> Calculus. P                                 |
| 2-3    | IV. Geometry (first term). A <sub>3</sub><br>Co-ordinate Geometry (second term). A <sub>3</sub><br>H <sub>1</sub> Co-ordinate Geometry. A <sub>1</sub><br>H <sub>2</sub> Dynamics. P | III Trigonometry. A <sub>3</sub><br>H <sub>2</sub> Calculus. P                                                                   | II Trigonometry. A <sub>2</sub><br>IV Mechanics (second term). P<br>H <sub>2</sub> Dynamics.                                                                                      | A III Geometry. A <sub>3</sub><br>H <sub>2</sub> Solid Geometry (first term) Differential Equations (second term). P                     | IV. Mechanics. A <sub>2</sub><br>H <sub>1</sub> Co-ordinate Geometry. A <sub>1</sub><br>H <sub>2</sub> Dynamics. P |
| 3-4    | IV and H <sub>2</sub> Spherical Trigonometry. A <sub>2</sub><br>H <sub>1</sub> Calculus. P <sub>1</sub>                                                                              | III Practical Mathematics. A <sub>1</sub><br>H <sub>2</sub> Mechanics. P <sub>1</sub><br>H <sub>2</sub> Geometry. A <sub>2</sub> | II. Practical Mathematics. A <sub>3</sub><br>IV. Mechanics (first term). A <sub>2</sub><br>Astronomy (second term). A <sub>1</sub><br>H <sub>2</sub> Solid Geometry (first term). | III Algebra. A <sub>1</sub><br>H <sub>1</sub> Mechanics. P <sub>1</sub>                                                                  | IV Practical Mathematics. A <sub>1</sub><br>H <sub>1</sub> Calculus. P <sub>1</sub>                                |

I=Junior Intermediate.  
II=Senior Intermediate.  
III=Junior B.A.  
IV=Senior B.A.  
H<sub>1</sub>=B.A. First year (Honours).  
H<sub>2</sub>=B.A. Second year (Honours).

P=Professor of Mathematics.  
P<sub>1</sub>=Professor of Mathematical Physics.  
A<sub>1</sub>=First Assistant Professor.  
A<sub>2</sub>=Second Assistant Professor.  
A<sub>3</sub>=Third Assistant Professor.



## DISTRIBUTION OF WORK, 1913-14.

## Department of Mathematics.

## Professor of Mathematics—

|             |    |    |                                      |
|-------------|----|----|--------------------------------------|
| First term  | .. | .. | B.A. Pass (second year), 1 hour.     |
|             |    |    | B.A. Honours (second year), 3 hours. |
|             |    |    | Do. (third year), 6 hours.           |
| Second term | .. | .. | B.A. Pass (second year), 1 hour.     |
|             |    |    | B.A. Honours (first year), 1 hour.   |
|             |    |    | Do. (second year), 3 hours.          |
|             |    |    | Do. (third year), 5 hours.           |

## \*Professor of Mathematical Physics—

|             |    |    |                                     |
|-------------|----|----|-------------------------------------|
| First term  | .. | .. | B.A. Pass (first year), 3 hours.    |
|             |    |    | B.A. Honours (first year), 4 hours. |
|             |    |    | Do. (second year), 2 hours.         |
|             |    |    | Do. (third year), 2 hours.          |
| Second term | .. | .. | B.A. Honours (first year), 4 hours. |
|             |    |    | Do. (second year), 3 hours.         |
|             |    |    | Do. (third year), 1 hour.           |

## First Assistant—

|             |    |    |                                     |
|-------------|----|----|-------------------------------------|
| First term  | .. | .. | B.A. Pass (first year), 3 hours.    |
|             |    |    | Do. (second year), 2 hours.         |
|             |    |    | B.A. Honours (first year), 3 hours. |
|             |    |    | Do. (second year), 6 hours.         |
| Second term | .. | .. | B.A. Pass (first year), 3 hours.    |
|             |    |    | Do. (second year), 2 hours.         |
|             |    |    | B.A. Honours (first year), 3 hours. |
|             |    |    | Do. (second year), 5 hours.         |

## Second Assistant—

|             |    |    |                                     |
|-------------|----|----|-------------------------------------|
| First term  | .. | .. | Intermediate (first year), 1 hour.  |
|             |    |    | Do. (second year), 1 hour.          |
|             |    |    | B.A. Pass (second year), 3 hours.   |
|             |    |    | B.A. Honours (first year), 7 hours. |
|             |    |    | Do. (second year), 3 hours.         |
| Second term | .. | .. | Intermediate (first year), 1 hour.  |
|             |    |    | Do. (second year), 1 hour.          |
|             |    |    | B.A. Pass (second year), 3 hours.   |
|             |    |    | B.A. Honours (first year), 8 hours. |
|             |    |    | Do. (second year), 3 hours.         |

## Third assistant—

|             |    |    |                                     |
|-------------|----|----|-------------------------------------|
| First term  | .. | .. | Intermediate (first year), 3 hours. |
|             |    |    | Do. (second year), 3 hours.         |
|             |    |    | B.A. Pass (first year), 4 hours.    |
|             |    |    | Do. (second year), 3 hours.         |
|             |    |    | B.A. Honours (first year), 2 hours. |
| Second term | .. | .. | Intermediate (first year), 3 hours. |
|             |    |    | Do. (second year), 3 hours.         |
|             |    |    | B.A. Pass (first year), 4 hours.    |
|             |    |    | Do. (second year), 3 hours.         |

## DEPARTMENT of Mathematics, 1913-14.

| Hour. | Monday.                                       | Tuesday.                                         | Wednesday.                                             | Thursday.                                | Friday.                                            |
|-------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------------|------------------------------------------|----------------------------------------------------|
| 10-11 | H <sub>1</sub> Plane Trigonometry (1st term). | A <sub>2</sub> II. Geometry ..                   | A <sub>3</sub> III Algebra ..                          | A <sub>1</sub> IV and H <sub>2</sub> ..  | I Geometry .. A <sub>3</sub>                       |
| 11-12 | H <sub>2</sub> Solid Geometry (1st term).     | A <sub>1</sub> IV. H <sub>2</sub> and Astronomy. | A <sub>2</sub> H <sub>1</sub> Trigonometry (1st term). | A <sub>3</sub> Astronomy ..              | A <sub>2</sub> III Mechanics. P <sub>1</sub>       |
| 1-2   | I Algebra ..                                  | A <sub>2</sub> IV Algebra ..                     | A <sub>1</sub> I. Trigonometry.                        | A <sub>3</sub> IV. Geometry ..           | A <sub>2</sub> H <sub>1</sub> Geometry (2nd term). |
| 2-3   | III Mechanics.                                | P <sub>1</sub> H <sub>2</sub> Statics ..         | P <sub>1</sub> III. Mechanics.                         | A <sub>1</sub> H <sub>1</sub> Algebra .. | A <sub>3</sub> H <sub>2</sub> Statics ..           |
| 3-4   | H <sub>1</sub> Algebra ..                     | A <sub>2</sub> ..                                | A <sub>1</sub> H <sub>1</sub> Co-ordinate Geometry.    | P <sub>1</sub> ..                        | P <sub>1</sub> ..                                  |

\* Has got work (five hours) also in the Physics Department—higher Mathematics to the B.A. Honours (first year) and Spherical Harmonics to B.A. Honours (second year).

| Hours. | Monday.                                           | Tuesday.                                             | Wednesday.                                               | Thursday.                                                | Friday.                                              |
|--------|---------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|
| 12-1   | I Practical Mathematics.                          | A <sub>2</sub> III Geometry.                         | A <sub>3</sub> III Geometry.                             | A <sub>2</sub> II Algebra ..                             | A <sub>3</sub> H <sub>1</sub> Practical Mathematics. |
|        | H <sub>1</sub> Geometry.                          | A <sub>2</sub> H <sub>1</sub> Kinematics (2nd term). | P IV Co-ordinate Geometry.                               | P H <sub>2</sub> Calculus ..                             | A <sub>1</sub> H <sub>2</sub> Calculus ..            |
|        | H <sub>2</sub> Differential equations (2nd term). | A <sub>1</sub> H <sub>2</sub> Calculus ..            | A <sub>1</sub> ..                                        | ..                                                       | ..                                                   |
|        | H <sub>3</sub> Special subjects.                  | P H <sub>3</sub> Series (1st term).                  | P H <sub>1</sub> Geometry ..                             | A <sub>2</sub> H <sub>3</sub> Special subjects.          | P H <sub>3</sub> Special subjects.                   |
| 2-3    | IV Geometry (1st term).                           | A <sub>3</sub> III Trigonometry.                     | A <sub>2</sub> II Trigonometry.                          | A <sub>2</sub> III Geometry.                             | A <sub>3</sub> H <sub>1</sub> Co-ordinate Geometry.  |
|        | Co-ordinate Geometry (2nd term).                  | A <sub>3</sub> H <sub>3</sub> Special subjects.      | P IV Mechanics.                                          | A <sub>3</sub> H <sub>2</sub> Solid Geometry (1st term). | A <sub>1</sub> H <sub>2</sub> Dynamics.              |
|        | H <sub>1</sub> Co-ordinate Geometry.              | A <sub>1</sub> ..                                    | H <sub>2</sub> Dynamics ..                               | P Differential Equations (2nd term).                     | A <sub>1</sub> ..                                    |
|        | H <sub>2</sub> Dynamics.                          | P ..                                                 | ..                                                       | H <sub>2</sub> Dynamics.                                 | P ..                                                 |
| 3-4    | IV and H <sub>2</sub> Spherical Trigonometry.     | A <sub>2</sub> III Practical Mathematics.            | A <sub>1</sub> II Practical Mathematics.                 | A <sub>3</sub> III Algebra ..                            | A <sub>1</sub> IV Practical Mathematics.             |
|        | H <sub>1</sub> Calculus                           | P <sub>1</sub> H <sub>1</sub> Machines.              | A <sub>2</sub> IV Astronomy (2nd term).                  | A <sub>2</sub> H <sub>1</sub> Machines ..                | A <sub>2</sub> H <sub>1</sub> Calculus.              |
|        |                                                   | P <sub>1</sub> H <sub>3</sub> Astronomy.             | P <sub>1</sub> H <sub>2</sub> Solid Geometry (1st term). | A <sub>1</sub> H <sub>2</sub> Astronomy.                 | P <sub>1</sub> ..                                    |

I=Junior Intermediate.  
II=Senior Intermediate.  
III=Junior B.A.  
IV=Senior B.A.  
H<sub>1</sub>=B.A. first year (Honours).  
H<sub>2</sub>= " second year "  
H<sub>3</sub>= " third year "

P=Professor of Mathematics.  
P<sub>1</sub>=Professor of Mathematical Physics.  
A<sub>1</sub>=First Assistant Professor.  
A<sub>2</sub>=Second Assistant Professor.  
A<sub>3</sub>=Third Assistant Professor.

## DEPARTMENT OF PHYSICS.

## Present and proposed time-table for Intermediate and B.A. classes.

| Hour. | Monday.        | Tuesday.    | Wednesday.     | Thursday.   | Friday.         |
|-------|----------------|-------------|----------------|-------------|-----------------|
| 10-11 | ..             | ..          | I              | ..          | ..              |
|       | ..             | ..          | ..             | ..          | ..              |
|       | ..             | IV (2B)     | ..             | ..          | III (1-2A & B). |
| 11-12 | ..             | ..          | ..             | ..          | I               |
|       | ..             | ..          | ..             | ..          | ..              |
|       | III (1-2A & B) | II          | III (1-2A & B) | II          | III (1) P       |
|       | ..             | IV (2B) P   | ..             | ..          | ..              |
| 12-1  | ..             | ..          | ..             | ..          | ..              |
|       | ..             | ..          | ..             | ..          | ..              |
|       | ..             | IV (2A)     | IV (2A)        | IV (2A)     | III (1) P       |
|       | ..             | IV (2B) P   | ..             | IV (2B)     | ..              |
| 2-3   | ..             | ..          | ..             | ..          | ..              |
|       | ..             | ..          | ..             | ..          | ..              |
|       | II P           | I P         | ..             | I. P.       | II. P           |
|       | ..             | III (2A) P  | ..             | III (2A) P. | ..              |
|       | IV (2A) P      | ..          | IV (2A) P      | III (2B) P. | IV (2A)         |
| 3-4   | ..             | ..          | ..             | ..          | ..              |
|       | ..             | ..          | ..             | ..          | ..              |
|       | II P           | I. P        | ..             | I. P        | II. P           |
|       | ..             | III (2A) P. | ..             | III (2A) P  | ..              |
|       | IV (2A) P      | ..          | IV (2A) P      | III (2B) P  | ..              |

I = Junior Intermediate.  
I = Senior Intermediate.  
I = Junior B.A.  
V = Senior B.A.

P = Practical work.  
1 = Mathematics.  
2A = Physics.  
2B = Chemistry.



## HONOURS, 1ST YEAR—PHYSICS.

| Hours. | Monday.      | Tuesday. | Wednesday.  | Thursday.   | Friday.     |
|--------|--------------|----------|-------------|-------------|-------------|
| 10-11  | ..           | P        | ..          | P           | P           |
| 11-12  | ..           | P        | ..          | Lecture (J) | P           |
| 12-1   | ..           | P        | P           | ..          | P           |
| 2-3    | Lecture (J). | P        | Lecture (S) | P           | ..          |
| 3-4    | Lecture (S). | P        | ..          | P           | Lecture (S) |

Lecture (J) = by Professor of Physics.

Lecture (S) = by Professor of Mathematical Physics.

P = Hours of work at Practical Physics.

## HONOURS, 2ND YEAR—PHYSICS.

| Hours. | Monday.  | Tuesday.        | Wednesday.      | Thursday.       | Friday.  |
|--------|----------|-----------------|-----------------|-----------------|----------|
| 10-11  | ..       | ..              | ..              | ..              | ..       |
| 11-12  | ..       | Practical work. | Lecture.        | Practical work. | ..       |
| 12-1   | Lecture. | ..              | ..              | ..              | Lecture. |
| 2-3    | ..       | ..              | Practical work. | ..              | ..       |
| 3-4    | ..       | ..              | ..              | ..              | ..       |

## JUNIOR INTERMEDIATE—PHYSICS.

(MAXIMUM STRENGTH 60.)

Work in charge of Mr. S. Appaswami with the assistance of

Mr. V. Appa Rao in the Practical classes.

| Hour. | Monday. | Tuesday.  | Wednesday. | Thursday. | Friday.  |
|-------|---------|-----------|------------|-----------|----------|
| 10-11 | ..      | ..        | Lecture.   | ..        | ..       |
| 11-12 | ..      | ..        | ..         | ..        | Lecture. |
| 12-1  | ..      | ..        | ..         | ..        | ..       |
| 2-3   | ..      | Practical | ..         | Practical | ..       |
| 3-4   | ..      | Physics.  | ..         | Physics.  | ..       |

Time involved = 16 hours.

## SENIOR INTERMEDIATE—PHYSICS.

(MAXIMUM STRENGTH 60.)

Work in charge of Mr. V. Appa Rao with the assistance of Mr. S. Appaswami in the Practical classes.

| Hour. | Monday. | Tuesday.  | Wednesday. | Thursday. | Friday.   |
|-------|---------|-----------|------------|-----------|-----------|
| 10-11 | ..      | ..        | ..         | ..        | ..        |
| 11-12 | ..      | Lecture.  | ..         | Lecture.  | ..        |
| 12-1  | ..      | ..        | ..         | ..        | ..        |
| 2-3   | ..      | Practical | ..         | ..        | Practical |
| 3-4   | ..      | Physics.  | ..         | ..        | Physics.  |

Time involved = 16 hours.

## JUNIOR B.A.—PHYSICS.

Groups I, II-A and II-B.

| Hours. | Monday.  | Tuesday.          | Wednesday. | Thursday.         | Friday. |
|--------|----------|-------------------|------------|-------------------|---------|
| 10-11  | ..       | ..                | ..         | ..                | ..      |
| 11-12  | Lecture. | ..                | Lecture    | ..                | ..      |
| 12-1   | ..       | ..                | ..         | ..                | ..      |
| 2-3    | ..       | Practical Physics | ..         | Practical Physics | ..      |
| 3-4    | ..       | II A.             | ..         | (II A & B).       | ..      |

Work in charge of Mr. Jones, except the Practical Physics for group (1) undertaken by Mr. Appa Rao. It has not been possible this year to give practical instruction to group II-B, because there was no accommodation and no one disengaged at the hour to give it.

Time involved = 21 hours.

## SENIOR B.A.—PHYSICS.

Group II-A.

| Hour. | Monday. | Tuesday.           | Wednesday. | Thursday.          | Friday.  |
|-------|---------|--------------------|------------|--------------------|----------|
| 10-11 | ..      | ..                 | ..         | ..                 | ..       |
| 11-12 | ..      | ..                 | ..         | ..                 | ..       |
| 12-1  | ..      | Lecture            | Lecture    | Lecture            | ..       |
| 2-3   | ..      | Practical Physics. | ..         | Practical Physics. | ..       |
| 3-4   | ..      | ..                 | ..         | ..                 | Lecture. |

Work in charge of Mr. Jones with assistance in practical class from Mr. Appa Rao. It has only been possible to give practical work to this class on Wednesdays this year, as there was no one disengaged on Monday afternoon to take charge of the class. Two afternoons a week are necessary to enable the class to get through the course in two years.

Time involved = 18 hours.

## SENIOR B.A.—PHYSICS.

Group II-B.

| Hours. | Monday. | Tuesday.          | Wednesday. | Thursday. | Friday. |
|--------|---------|-------------------|------------|-----------|---------|
| 10-11  | ..      | ..                | ..         | ..        | ..      |
| 11-12  | ..      | ..                | ..         | ..        | ..      |
| 12-1   | ..      | Lecture Practical | ..         | Lecture   | ..      |
| 2-3    | ..      | Physics.          | ..         | ..        | ..      |
| 3-4    | ..      | ..                | ..         | ..        | ..      |

Work in charge of Mr. Appa Rao. It has not been possible to give these men practical work this year as Mr. Appa Rao had the Senior Intermediate on at the same hour.

Time involved = 9 hours.

## HONOURS 1ST YEAR.—PHYSICS.

| Hours. | Monday.     | Tuesday. | Wednesday.  | Thursday.   | Friday.     |
|--------|-------------|----------|-------------|-------------|-------------|
| 10-11  | ..          | P        | ..          | P           | P           |
| 11-12  | ..          | P        | ..          | Lecture (J) | P           |
| 12-1   | ..          | P        | P           | ..          | P           |
| 2-3    | Lecture (J) | P        | Lecture (S) | P           | ..          |
| 3-4    | Lecture (S) | P        | ..          | P           | Lecture (S) |

Lectures (J) — by Mr. Jones.

Lectures (S) — by Mr. Seshu Aiyar.

P = hours of work at Practical Physics.

P = Practical Physics every alternate week.

All practical work in charge of Mr. Jones.



I. TIME-TABLE of the work that is now being done by the Professor of Sanskrit and the Sanskrit Pandit.

| Hours. | Monday.              | Tuesday.             | Wednesday.     | Thursday.            | Friday.              |
|--------|----------------------|----------------------|----------------|----------------------|----------------------|
| 10-11  | ..                   | I-P.                 | II-P.          | ..                   | ..                   |
| 11-12  | ..                   | I-Pr.<br>II-P.       | I-P.<br>II-Pr. | ..                   | ..                   |
| 12-1   | ..                   | ..                   | III (H)-Pr.    | ..                   | IV-P.                |
| 2-3    | II-Pr.<br>III (H)-P. | III (H)-P.<br>IV-Pr. | III (H)-P.     | IV-Pr.<br>III (H) P. | II-P.<br>III (H)-Pr. |
| 3-4    | III (H)-Pr.          | III (H)-Pr.<br>IV-P. | II-P.          | III-P<br>I-Pr.       | III (H)-Pr.          |

In this time-table Pr. denotes the professor's and P the pandit's work. The work of the former amounts to 11 hours and of the latter to 13 hours per week. Since the professor, in his capacity as such, is also the Curator of the Government Oriental Manuscripts Library and receives no separate pay or allowance for being Curator, the work which he does as Curator amounting to not less than 10 hours a week has to be added to the 11 hours of teaching work done in the college to get at a full measure of his work. One M.A. student is made to attend the lectures of class III (H), as some of the subject are common; but English M.A. students do not get their translation classes in Sanskrit. Class I gets two hours less work than it should, and class III (H) gets only 10 hours of work, although it is desirable to give it teaching work for 10 hours. No library work is assigned to any of the classes, as the work of supervising and giving guidance to the students cannot be done in anything like a satisfactory manner by the pandit.

M. RANGACHARIAR—5-2-12.

II. TENTATIVE time-table of the Sanskrit department, assuming that two Intermediate and three B.A. Honours classes are to be at work.

| Hours. | Monday.           | Tuesday.               | Wednesday.                 | Thursday.              | Friday.           |
|--------|-------------------|------------------------|----------------------------|------------------------|-------------------|
| 10-11  | II<br>IV (H)      | I<br>IV (H)            | II<br>IV (H)               | II<br>V (H)            | IV (H)<br>V (H)   |
| 11-12  | III (H)<br>V (H)  | I<br>IV (H)<br>III (H) | I<br>II<br>V (H)           | III (H)<br>IV (H)      | IV (H)<br>V (H)   |
| 12-1   | IV (H)<br>V (H)   | III (H)<br>V (H)       | III (H)<br>IV (H)<br>V (H) | IV (H)<br>V (H)        | IV (H)<br>III (H) |
| 2-3    | II<br>III (H)     | IV (H)<br>V (H)        | II<br>III (H)              | I<br>III (H)<br>IV (H) | V (H)<br>III (H)  |
| 3-4    | III (H)<br>IV (H) | I<br>III (H)<br>V (H)  | III (H)<br>IV (H)<br>V (H) | I<br>III (H)<br>V (H)  | III (H)           |

It will be seen from this time-table that each of the two intermediate classes takes up 6 hours of teaching work, making a total of 12 hours. Class III (H) is given 15 hours of teaching work, class IV (H) has 15 hours, and class V (H) 14 hours. The number of hours of teaching work per week thus amounts in all to 56. Each of the three Honours B.A. classes may be expected to do 7 or 8 hours of library work, doing the reading under trained supervision and guidance. Thus provision has to be made for the conduct of about 80 hours of work per week, not taking into account the 10 hours of work per week done by the Professor of Sanskrit in his capacity as Curator of the Government Oriental Manuscripts Library. The more work one does in connection with this library, the more scope it gives for further work.

A reference to the text books prescribed and books recommended for extra reading for the Honours B.A. examination will show that the quantity of work proposed for the Honours classes here is in no way disproportionate.

M. RANGACHARIAR—5-2-12.

Dr. Bourne states that taking the physics and mathematics groups together (both are allied) there are at present three professors and five assistants and that there is necessity for an additional assistant for those groups.

2. Time-tables have been submitted as required by Secretary.

3. The time-tables for mathematics show the need for the two professors and three assistants now working in that department.

4. For the Sanskrit section, there are now a professor and a pandit and the time-table on page 10 *ante* shows the present distribution of work. If the second year Honours class is formed next July, the necessity for an additional assistant will be felt. That class will require 15 hours.

5. In regard to the Physics department, the time-tables are at pages 8-10 *ante*. It is not quite clear which are the present time-tables and which are the proposed ones. Apparently page 8 represent the present ones and pages 8-10 the proposed ones. If this is so, it is seen that the proposed time-tables contain no provision for the honours second year class. Even as they are, provision has to be made for 94 hours of work, including practical classes and excluding the three hours of lecturing assigned to the professor of mathematical physics, for which there is a staff of a professor and two assistants. The additional assistant proposed seems therefore necessary and the two demonstrators are required to help in the practical classes.

L. D.

6. It is submitted that the Director of Public Instruction's proposals for the additional staff may be accepted.

7. As for the salaries of the proposed assistants, the Director of Public Instructions recommends that one of them may be in the first grade (Rs. 175) and the other in the second grade (Rs. 150) of the subordinate educational service, collegiate branch. The present strength and the proposed strength of this branch of the service are shown below—

|                      | Present No. | Proposed No. |
|----------------------|-------------|--------------|
| First class, Rs. 175 | 5           | 6            |
| Second class „ 150   | 6           | 7            |
| Third class „ 125    | 8           | 8            |
| Fourth class „ 100   | 13          | 13           |
|                      | 32          | 34           |

The Director of Public Instruction's proposal which is calculated to secure an even flow of promotion may be accepted.

8. The salaries of the demonstrators may be fixed at Rs. 50 as suggested by the Director of Public Instruction.

9. The papers may now, it is submitted, be sent to Financial for remarks.

R. SUNDARAM AIYAR—7-3-12.

In the light of the further information supplied u.o. by the Director of Public Instruction, his proposals may be supported by Educational.

L. DAVIDSON—7-3-12.

To the Financial Department.



## FINANCIAL DEPARTMENT.

To provide for the requirements of the new University Regulations, the teaching staff of the Presidency College was strengthened in 1909 (with the sanction\* of the Secretary of State) by the addition eventually of *four* appointments in the Indian Educational Service, and *nine* appointments in the subordinate Educational service. The proposals now made are :—

\* At an eventual extra cost of Rs. 52,766 (roughly) *per annum* so far as the Presidency College is concerned.

Paragraphs 9 of letter, 148, Educational, dated 13th March 1909, and G.O. No. 590, Educational, dated 30th June 1909.

Paragraph 4 of Director of Public Instruction's letter.

|                                                                                                                             | Extra cost<br>per mensem.<br>RS. |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| (a) <i>Physics branch.</i>                                                                                                  |                                  |
| <i>Permanent.</i> —Employment of one assistant professor in the first grade of the subordinate educational service .. .. .  | 175                              |
| <i>Temporary.</i> —Employment for 12 months in each year of two demonstrators on Rs. 50 each <i>per mensem</i> .. .. .      | 100                              |
| (b) <i>Sanskrit branch.</i>                                                                                                 |                                  |
| <i>Permanent.</i> —Employment of one assistant professor in the second grade of the subordinate educational service .. .. . | 150                              |
| Total extra cost.                                                                                                           | 425                              |

of which Rs. 325 *per mensem* is under permanent establishments and Rs. 100 *per mensem* .. . . . temporary.

2. *Item (a).*—In 1909 no special additional staff was sanctioned for the Mathematics branch. But one professor of Mathematical Physics and two assistants for him were then sanctioned and they were intended to work for the Mathematics and Physics branches in common. It would now appear that two of the men are devoting almost the whole of their time to Mathematics, the Physics branch consequently receiving reduced help. It is apparent that the requirements for the additional staff were not fully foreseen in 1908. It is submitted that, in the circumstances reported, this department may agree to three additional hands being entertained, but a pay of Rs. 100 *per mensem* (last grade, subordinate educational service) would appear to suffice for the new appointment of assistant professor especially in view of the fact that large additions were made only so recently as in 1909.

Note under branch II on page 6 of G.O. No. 31, Educational, dated 16th January 1909, and statement in paragraph 5 of letter No. 148, Educational, dated 13th March 1909.

Page 6 of G.O. No. 31, Educational, dated 16th January 1909.

Portion under branch II of Director of Public Instruction's letter on page 6 of G.O. No. 31, Educational, dated 16th January 1909.

Please see Hon'ble Mr. Stokes' note, dated 8th September 1908, on pages 8 and 9 of notes to G.O. No. 31, Educational, dated 16th January 1909.

3. *Item (b).*—No additions were made to the teaching staff for the classical and vernacular languages branches in 1909 as it was thought that the number of students for that course would not be large, and that therefore it was desirable to wait and see what prospects there were of the language divisions of the examinations being taken up by the students. It is now reported that five students have joined the B.A. Honours class with Sanskrit as the subject. It is submitted that the necessity for an additional hand

for teaching Sanskrit may, in the circumstances, be admitted; but it is for consideration whether the post may not be temporary only for the present on Rs. 100 *per mensem* it being made permanent later on if the classes continue to maintain a normal strength.

4. If the above suggestions are accepted, the extra cost will be reduced to Rs. 300 *per mensem* (Rs. 100 *per mensem* under permanent establishments and Rs. 200 *per mensem* under temporary establishments) against Rs. 425 *per mensem* according to the Director of Public Instruction's proposals. The hands are proposed to be employed from next July onwards, so that the charge during 1912-13 will be about Rs. 3,400. The Director of Public Instruction has to be asked to forward the necessary re-appropriation statement and get it sanctioned before the expenditure is incurred. The proposals may, it is submitted, be accepted subject to the remarks in paragraphs 2 and 3 *ante*.

Paragraph 5 of Director of Public Instruction's letter, as modified by paragraph 1 of Director of Public Instruction's note on page 3 *ante*.

C.P.K.—18-3-12.

S. D. SUNDARAM PILLAI—18-3-12.

C. REILLY—20-3-12.

We may accept the proposals of the Educational department.

2. I do not know which to admire most—the phraseology of the Director of Public Instruction who gives the grandiloquent style of assistant professor to these gentlemen on Rs. 100 to Rs. 175 or that of the Finance Department office-note, which describes them as “hands”!

H. A. STUART—22-3-12.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Approved.

L. DAVIDSON—25-3-12.

M. H[AMMICK]—26-3-12.

A draft is submitted for approval. If approved, it may be sent to the Financial department for acceptance.

T.K.—29-3-12.

C. RAMANUJACHARI—29-3-12.

L. DAVIDSON—30-3-12.

To the Financial Department.

FINANCIAL DEPARTMENT.

The draft order may, it is submitted, be accepted, the sanction being registered as No. 36 of 1912-13.

C.P.K.—2-4-12.

K. P. ANANTAN—2-4-12.

C. REILLY—3-4-12.

A. G. CARDEW—5-4-12.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Submitted that the draft order may issue.

C. RAMANUJACHARI—10-4-12.

Yes.

M. S. MASCARENHAS—11-4-12.

[G.O. No. 310, Educational, dated 11th April 1912.]



CNo. 38 From the D.P.I. N o. 6453/11, dated 13th December 1912.

Order:- 310 dy 11-4-12  
Press

The Govt. sanction with effect from the 1st July 1912 the proposals of the D.P.I. to strengthen the staff of the Presidency College by the appointment of two assistants and two demonstrators. The <sup>posts of</sup> assistants will be included in the cadre of the <sup>ordinate</sup> Sub Educational service, collegiate branch, one in the first and the other in the second class. The demonstrators <sup>Each receive a monthly salary of Rs 50</sup> will ~~be paid Rs. 50 each~~ and will ordinarily be employed from year to year.

2. This sanction will be registered as No. 36 of 1912-13.

3. The D.P.I. will be requested to submit a reappropriation statement at an early date as no expenditure can be incurred until the necessary provision of funds has been made.

TH. CA  
29.3.12 29.3.12

5  
30 12

To the D.P.I.

,, Finl Dept.

5/12/12  
Show the date  
8/6/12

\* Vide Col. 18 of the proposition  
stat - page 8 of p.



EDUCATIONAL  
DEPARTMENT.

15 APR 1912

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